

ABSTRACT

The optical signal receiver of this invention is an optical signal receiver that receives and
5 frequency-demodulates an optical signal, comprising: an optical branch device for splitting an input optical signal into two optical signals (13); an optical delay line for delaying one of the two branched optical signals (15); a first photoelectric conversion circuit (17) for
10 converting the optical signal from the optical delay line into the first electrical signal (17); a second photoelectric conversion circuit (19) for converting the other optical signal of the two branched optical signals into a second electrical signal; the rectangular-wave
15 forming circuit (21, 23, 25) for outputting a single rectangular-wave signal using the first electrical signal from the first photoelectric conversion circuit and the second electrical signal from the second photoelectric conversion circuit as inputs; and a smoothing circuit (12)
20 for smoothing the rectangular-wave signal from the rectangular-wave forming circuit.